

Amendments to the Claims

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please ADD new claims 11-16.

Please AMEND claims 1, 5, 6, 7, 9, and 10 to read as follows:

1. (Currently Amended) An optical circuit comprising:
a first optical element formed on a substrate, guiding light and having an optical coupling part;

~~a second optical element formed on said the substrate and guiding light received from the optical coupling part of the first optical element; and~~

~~a an third optical waveguide element formed on the substrate and guiding or protecting light which is emitted or leaking radiated from said the optical coupling part.~~

2. (Previously Presented) The optical circuit according to Claim 1, wherein at least one optical element is a Mach-Zehnder type optical element.

3. (Previously Presented) The optical circuit according to Claim 1, wherein at least one optical element is a Mach-Zehnder interferometer type optical modulator.

4. (Previously Presented) The optical circuit according to Claim 1, wherein at least two optical elements are connected in tandem.

5. (Currently Amended) The optical circuit according to Claim 1, wherein said the substrate is made of ferroelectric material.

6. (Currently Amended) The optical circuit according to Claim 1, wherein:
~~one of the first and second optical element elements~~ is a first Mach-Zehnder type optical modulating part for applying a clock signal voltage at a predetermined cycle to an a first

electrode for varying a refractive index of said first the third optical waveguide element; and
one wherein the other of the first and second optical element elements is a
second Mach-Zehnder type optical modulating part connected in tandem with said the first
Mach-Zehnder type optical modulating part for applying a signal voltage modulated according to
information to be transmitted, to said a second electrode.

7. (Currently Amended) The optical circuit according to Claim 1, wherein said the
substrate is made of lithium niobate (LiNbO₃).

8. (Previously Presented) The optical circuit according to Claim 1, wherein light from
said first optical element is formed in a Mach-Zehnder interferometer structure to attenuate light
intensity and vary an amount of attenuation.

9. (Currently Amended) An optical circuit comprising:
a substrate having at least two optical elements;
a first optical waveguide formed on said substrate and connecting said the optical
elements to guide signal light outputted from an upstream optical element to a downstream
optical element; and
a pair of second optical waveguides formed on said the substrate and formed on both
sides of said the first optical waveguide to guide unnecessary light outputted radiated or leaking
from said the first optical waveguide.

10. (Currently Amended) An optical circuit comprising:
a first optical waveguide formed on a substrate connecting optical elements to guide
signal light outputted from one optical element to another; and
a second optical waveguide formed on the substrate to guide subsidiary light emitted
radiated or leaking from said the first optical waveguide.

11. (New) The optical circuit according to Claim 1, wherein the third optical element
guides the light which is radiated or leaking from the optical coupling part to an outside of the
substrate.

12. (New) The optical circuit according to Claim 1, wherein the third optical element
extends to an end of an outside face of the substrate, to at least one of an upper and lower

surface of the substrate, and releases the light which is radiated or leaking from the optical coupling part to an exterior at the surface to which the third optical element extends.

13. (New) The optical circuit according to Claim 12, wherein a mirror is provided on a surface of the substrate opposite the surface at which the third optical element releases the light which is radiated or leaking from the optical coupling part.

14. (New) The optical circuit according to Claim 12, wherein a diffraction grating is provided on a surface of the substrate opposite the surface at which the third optical element releases the light which is radiated or leaking from the optical coupling part.

15. (New) An apparatus comprising:

a substrate;

an optical coupler formed on the substrate and guiding light from an optical component formed on the substrate to another optical component formed on the substrate; and

an optical element formed on the substrate guiding light which is radiated or leaking from the optical coupler to an outside of the substrate.

16. (New) A method of transmitting light, comprising:

guiding light from an optical element formed on a substrate to another optical element formed on a substrate; and

guiding light which is radiated or leaking from the optical coupler to an outside of the substrate.